

EXHIBIT 1

U.S. Patent Application No. 10/286,464
Amendment dated October 1, 2004
Reply to Office Action of July 1, 2004

Amendments to the Claims:

This listing of claims will replace all prior versions and listings of claims in the application:

Listing of Claims:

1-25. (cancelled)

26. (new) A network for transferring packets between a plurality of packet communication networks, comprising:

- a plurality of edge nodes connected to said packet communication networks;
- a plurality of relay nodes connected between said edge nodes;
- a network management equipment connected to each of said edge nodes and said relay nodes, wherein

said network management equipment comprises:

- a means for setting up a plurality of routes between said edge nodes in advance;
- a means for collecting information on network status of said routes respectively from said edge nodes and said relay nodes located on said plurality of routes; and
- a means for sending information on available routes and said information on the network status respectively to said edge nodes and said relay nodes in accordance with said information on the network status of the routes being collected; and wherein

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U.S. PATENT OFFICE
OCT 1 2004
WASHINGTON, DC

each of said edge nodes and said relay nodes comprise:

a means for measuring network status of a route and for sending that information on said network status thus measured to said network management equipment, and wherein

said edge nodes further comprise:

a means for storing said information on the network status and said route sent from said network management equipment;

a means for selecting a route from said plurality of routes in accordance with a packet destination and said information on the route and said network status being stored in said means for storing;

a means for converting an IP packet into a plurality of cells; and

a means for transferring said plurality of cells to said selected route.

27. (new) A network according to claim 26, wherein said information on the network status is a bandwidth information.

28. (new) A network according to claim 26, wherein said information on the network status is a network failure information.

29. (new) A network according to claim 26, wherein said information on the network status is a congestion information.

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30. (new) A network according to claim 26, wherein said edge node sends out said plurality of cells to said selected route by adjusting output speed or output timing interval.